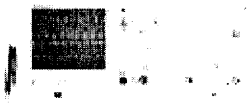
OS-5100 : 100MHz, 2Ch, Dual trace, Delay sweep function



- DC to 100MHz bandwidth, 2 channels, Dual trace
- 6" rectangular CRT with internal graticule
- Wide dynamic range even at high frequency
- ALT triggering function(VERT mode)
- Auto focusing according to the change of intensity
- Drift compensation circuit employed in vertical amplifier for low drift
- Jitterless and high trigger sensitivity
- TV sync. Separator circuit for stable TV signal observation
- X-Y operation
- Signal delay line installed

CRT

- Configuration and useful screen : 6 inch rectangular screen with internal graticule, 8X10div. (1div = 1cm) marking for measurement of rise time, 2mm subdivisions along the central axis.
- Acceleration potential : +10.5kv approx.(ref. Cathode)
- Phosphor : P31
- Focusing : provided
- Trace rotation : provided
- Intensity control : provided

Z-AXIS INPUT(INTENSITY MODULATION)

- Input signal : positive going signal decreases +5Vp-p or more signal cases intensity noticeable modulation at normal intensity setting
- Bandwidth : DC to 3.5MHz(-3dB)
- Coupling : DC
- Input impedance : 17~22k§Ù typical
- Maximum input voltage : 20V(DC + peak AC)

VERTICAL DEFLECTION

- DC coupled(-3dB) : DC to 100MHz normal / DC to 20MHz magnified
- AC coupled(-3dB) : 10Hz to 100MHz normal / 10Hz to 20MHz magnified
- Modes : CH1, CH2, ADD, CHOP, ALT
- Deflection factor (normal): 2mV/div. to 5V/div. in 11 calibrated steps of 1-2-5 sequence. Continuously variable between steps at least 1:2.5 X 5.
- Accuracy : normal ¡¾3%
- Input impedance : approx. 1M§Ù in parallel with 25pF
- Maximum input voltage : direct 250V (DC + peak AC)
- Input coupling : AC, GND, DC
- Rise time : 3.5ns or less (17.5ns or less : 2mV/div.)
- CH1 output : 20mV/div. into 50§Ù / 50Hz to 30MHz(-3dB)
- Polarity inversion : CH2 only
- Signal delay : delay cable installed

HORIZONTAL DEFLECTION

- Sweep mode : A, A int B, B, B triggered, X-Y
- Time base A : 0.1§Á/div. to 0.5s/div. in 21 calibrated steps of 1-2-5 sequence uncalibrated continuous control between steps at least 1:2.5
- Hold-off time on time base A : variable with the hold-off control
- Time base B : 0.1§Á/div. to 10§Á/div. in 7 calibrated steps of 1-2-5 sequence
- Delay sweep on time base B: 1div. or less / 10 div. or more
- Sweep magnification : 10 times (max. sweep rate : 10ns/div.)
- Accuracy : ¡¾3%, ¡¾5%(1:10 probe)

TRIGGER SYSTEM

- Accuracy :
- Modes : AUTO, NORM, TV-V, TV-H
- Source : INT, LINE, EXT
- Coupling : AC
- Slope : + or -
- Sensitivity and frequency in AUTO, NORM 30Hz -10MHz : 0.48div. in INT / 200mVp-p in EXT
- Sensitivity and frequency in AUTO, NORM 10MHz -100MHz : 1.5div. in INT / 600mVp-p in EXT
- Sensitivity and frequency in ALT trigger 30Hz -10MHz : 1.5div. in INT
- Sensitivity and frequency in ALT trigger 10MHz -10MHz : 1.5div. in INT
- Maximum input voltage : 250V (DC + AC peak)

X-Y OPERATION

- Sensitivity : same as vertical deflection for both X-axis(CH1) except accuracy ¡¾5% in X-axis
- Frequency and bandwidth : DC to 2MHz (DC coupling) / 10Hz to 2MHz(AC coupling)
- X-Y phase difference : 3¡Æor less as DC to 50kHz

CALIBRATOR

- Probe adjustment : approx. 1kHz frequency, 0.5V(¡¾3%) square wave with 50% duty ratio

POWER SUPPLY

- Line voltage range : 100V(90-110V) with 250V 2A fuse, 120V(108-132V) with 250V 2A fuse, 220V(198-242V) with 250V 1A fuse or 230V(216-250V) with 250V 1A fuse
- Line frequency : 50/60Hz
- Power consumption : approx. 60W

PHYSICAL CHARACTERISTICS

- Weight : 9.6kg
- Dimension : 320mm(W) X 140mm(H) X 430mm(L)